

## SEVERE LOCAL STORMS, AUGUST, 1927

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards <sup>1</sup>	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Westchester County, N. Y.	1					Severe thunder-storm.	Cellars, basements, and streets flooded.	Official, U. S. Weather Bureau.
Bickleton, Wash. (near)	2		3,520		\$3,000	Hail.	Considerable injury to crops.	Do.
Kenton, Okla. (near)	3	7-9 p. m.	2,640		2,000	do.	Some poultry killed, windows broken, roofs riddled, crops damaged; path 10 miles long.	Do.
Door County, Wis.	4	2-4:30 p. m.	2,640		4,000	Heavy hail.	Damage principally to crops.	Do.
Antelope County, Nebr.	4	3 p. m.	2,640			do.	Crops damaged over path 9 miles long.	Do.
O'Neill, Nebr.	5	2 p. m.			2,000	Hail.	Windows, roofs, and gardens damaged.	Do.
Emmet County, Iowa	5	4 p. m.	3 mi.			do.	Severe damage to crops over path 6 miles long.	Do.
Polk County, Nebr. (central)	5	6:30 p. m.	5 mi.		50,000	Hail and wind.	Corn damaged 50 to 100 per cent in places; a few barns, windmills, and sheds damaged.	Do.
Connecticut (north central)	5	P. m.		2	365,000	Electrical and hail.	Heavy damage to tobacco.	Hartford Courant (Conn.).
Fairbury, Nebr.	5	P. m.				Hail and rain.	Corn crop on 10 farms more or less ruined; orchards and gardens damaged; poultry and pigs drowned.	Official, U. S. Weather Bureau.
Phillips and Blaine Counties, Mont.	5-6				100,000	Hail.	Heavy damage to standing grain.	Do.
Dawson, N. Mex.	6	2 p. m.	880			Heavy hail.	Character of damage not reported.	Do.
Macon County, Ill.	6	2:30 p. m.	3,520			do.	Some fields of corn completely ruined, oats injured, windmills and light buildings damaged.	Do.
Sullivan, Ill. (near)	6	3 p. m.	3 mi.		95,000	Hail.	Much corn a total loss; minor property damage.	Do.
De Witt County, Ill.	6				6,000	Wind.	Trees and buildings damaged.	Do.
Steuben County, Ind.	7	3-5 p. m.	220		3,000	Hail, rain, and wind.	Corn badly injured; buildings damaged; path 1 mile long.	Do.
Marathon, N. Y. (near)	7	3:30-4:15 p. m.	1,760		100,000	Heavy hail.	All crops severely damaged over path 10 miles long.	Do.
Fort Robinson, Nebr.	7	4:30 p. m.	8 mi.		250,000	Hail.	Complete destruction of crops in many places; minor property damage.	Do.
Glendo, Wyo.	7		6 mi.		8,000	Hail and wind.	Crops hurt over path 8 miles long.	Do.
Green Lane, Pa.	8	10 a. m.	1,760		5,000	Electrical and hail.	Orchards considerably damaged; 1 building unroofed, trees uprooted.	Do.
West Berlin and Pine Valley, N. J.	8					Tornadoic wind and rain.	Many buildings damaged, some totally wrecked, wires blown down, crops and fruit injured; several persons hurt.	Do.
New York City, N. Y., and vicinity.	8-9				1,000,000	Electrical, rain, and wind.	Several buildings wrecked, many damaged, and more than 100 cellars flooded; traffic delayed; about 20 persons injured.	Herald Tribune (New York). Official, U. S. Weather Bureau.
Sheridan, Wyo., and vicinity.	9				62,000	Heavy hail.	Extensive damage to buildings and crops; path 50 miles long.	Do.
Manassa, Colo.	9	Noon	4 mi.		50,000	do.	Barley, oat, and pea crops total loss.	Do.
Shelby County, Iowa	10	6 p. m.			68,000	do.	Crops damaged 50 per cent.	Do.
Keya Paha County, Nebr.	10	7 p. m.			10,000	Hail.	Severe crop damage over 40 square miles.	Do.
Sheridan County, Wyo. (northern)	10					Hail and wind.	Crops reported damaged over path 18 miles long.	Do.
Colfax, Dodge, and Saunders Counties, Nebr.	11	3 p. m.	3 mi.		105,000	Hail.	Considerable damage to crops and gardens in places; roofs and windows damaged.	Do.
Penrose, Colo.	11	3 p. m.	880			Heavy hail.	50 acres of fruit injured.	Do.
Rawlins and Thomas Counties, Kans.	11	3:30 p. m.	1,760		10,000	do.	Chief damage to corn and field crops.	Do.
Saline, Gage, and Jefferson Counties, Nebr.	11	5 p. m.	4-5 mi.		20,000	Hail and wind.	Damage chiefly to crops.	Do.
Logan, Thomas, and Gove Counties, Kans.	11	6 p. m.	4 mi.		250,000	Severe hail.	Extensive crop damage.	Do.
Price, Utah (near)	11		880		2,500	Hail.	Sugar beets and standing grain damaged.	Do.
Wheatland, Wyo.	11				12,000	Heavy hail.	Crop damaged.	Do.
Gordon, Nebr.	12	4 p. m.	880			Hail.	Crops damaged 50 to 80 per cent over path 3 miles long.	Do.
Decatur County, Kans.	12	5 p. m.	4 mi.		10,000	do.	Crops beaten; cattle injured; path 12 miles long.	Do.
Butler County, Kans.	12					Wind, rain, and hail.	Considerable damage to growing crops, buildings, oil-field property, highways, and communication lines; traffic crippled.	Wichita Eagle (Kans.).
Norton County, Kans.	13	2-3 p. m.	1,760			Heavy hail.	Extensive crop losses over path 16 miles long.	Official, U. S. Weather Bureau.
Deerfield, Kans. (near)	13	4 p. m.	4 mi.			Heavy hail.	Crops extensively damaged.	Do.
Pratt and Barber Counties, Kans.	13	7 p. m.	100		10,000	Tornado.	Farm home and a number of out buildings destroyed; storm path through sparsely settled community.	Do.
Windsor Locks, Conn., and vicinity.	13				100,000	Thunderstorm and hail.	150 acres of tobacco ruined; traffic delayed by washouts; barn destroyed by lightning.	Hartford Times (Conn.).
Rugh Ranch, Colo.	14	12:30 p. m.	4 mi.			Heavy hail.	Gardens, alfalfa, and pastures damaged.	Official, U. S. Weather Bureau.
Carrabelle, Fla. (eastern part)	15	2:15 p. m.			55,000	Tornadoic wind.	13 business houses blown down or damaged; many residences also damaged; 8 persons injured.	Do.
Banner, Kimball, and Cheyenne Counties, Nebr.	16	2 p. m.	3,520		200,000	Hail.	Severe injury to crops, buildings damaged; poultry killed; path 30 miles long.	Do.
Jeffersonville, N. Y. (near)	18	2 p. m.				Heavy hail.	Corn considerably damaged.	Do.
Amitead, N. Mex. (near)	18	5 p. m.	2,640		1,000	do.	Character of damage not reported.	Do.
Polk and Warren Counties, Iowa	19	6:40 p. m.	1,760		20,000	Hail.	do.	Do.
Del Norte, Colo. (near)	20	P. m.	1,760			do.	Lettuce and pea crops damaged.	Do.
Fort Stanton, N. Mex.	20	4:30 p. m.	1,760		2,000	Hail.	Range grass badly beaten.	Do.
Scott County, Kans.	21	3-4 p. m.	3,520		100,000	Heavy hail.	Character of damage not reported; path 30 miles long.	Do.
Webster, Nuckolls, Clay, Fillmore, Hamilton, and Merrick Counties, Nebr.	21	3-6:30 p. m.			125,000	Hail.	Severe damage to crops in scattered localities over an area of 500 square miles; windows broken; poultry killed.	Do.
Smith and Osborne Counties, Kans.	21	5 p. m.	1-6 mi.		75,000	Heavy hail.	Character of damage not reported; drifts of hail 3 feet deep.	Do.
Rooks County, Kans.	21	7:30 p. m.	10 mi.		60,000	do.	Heavy property damage in eastern third of county.	Do.
Cerro Gordo and Sioux Counties, Iowa	21					Wind and hail.	Buildings, telephone wires, and crops damaged.	Do.
Smith County, Kans.	22	4 p. m.	1,320		50,000	Heavy hail.	Damage chiefly to growing crops.	Do.

<sup>1</sup> Mi. signifies miles instead of yards.

## SEVERE LOCAL STORMS, AUGUST, 1927—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Casper County, Wyo.....	22	2:45 p. m.			\$12,000	Heavy hail.....	Windows, roofs, and auto tops pierced; crops injured.	Official, U. S. Weather Bureau.
Gordon, Ohio (1½ miles east of).	23	P. m.				Tornado.....	Buildings, crops, and trees damaged.....	Do.
Savannah, Ga.....	25	4 p. m.				Wind and rain.....	Buildings damaged; streets flooded; 2 persons injured.	Morning News (Savannah, Ga.).
Twodot, Mont.....	25					Hail.....	Serious local damage to grain and hay.....	Official U. S. Weather Bureau.
Salt Lake City, Utah.....	26	1 p. m.				do.....	Considerable damage in business and residential sections.	Do.
Tonasket, Wash.....	27	5-6 p. m.	880		3,000	do.....	Some crop loss.	Do.
Cibecue, Ariz.....	28	7:15 p. m.				Heavy hail.....	Melon and cucumber vines ruined; tomatoes hurt; corn damaged.	Do.
Hancock County, Iowa.....	28	P. m.				do.....	Storm very destructive to crops.....	Do.
Palmetto, Ga.....	29	4:30 p. m.			10,000	do.....	Cotton and corn stripped.....	Do.
Altamont, N. Y.....	29	P. m.	4 mi.		50,000	do.....	Crop and property damage over path 8 miles long.	Do.
Amistad, N. Mex. (near)	30	5-6 p. m.	3,520		3,000	do.....	Beans and row crops destroyed.....	Do.
Beaverhead County, Mont.	30					do.....	Storm covered wide area damaging dry lands wheat fields.	Do.
Orange, Tex. (near).....	31	2:30-3:30 p. m.	10 mi.			Wind and hail.....	1 barn and 15 oil derricks blown down; windows broken.	Do.
Scott County, Kans.....	31	3:20 p. m.	1,320		10,000	Heavy hail.....	Character of damage not reported.....	Do.
Ellinwood, Kans. (near).....	31					do.....	Many roofs riddled; screens and windows broken; crops injured.	Do.

## STORMS AND WEATHER WARNINGS

## WASHINGTON FORECAST DISTRICT

The first tropical disturbance of the season made its appearance on the morning of the 21st, about 300 miles northeast of St. Kitts. At that time it was of considerable intensity, as indicated by the heavy northeast swells reported by the S. S. *Inanda* in approximate latitude 19° N. and longitude 60° W. Undoubtedly this disturbance developed far to the eastward, very likely in the region of the Cape Verde Islands. A letter from Capt. F. C. Seibert of the S. S. *Seekonk* reports that at 5:40 p. m., in latitude 22° 46', longitude 63° 00', a barometric pressure of 28.38 inches and winds of hurricane force shifting from northeast to east-south-east. A delayed report from the S. S. *Maraval* at 1 a. m., August 22, in latitude 22° 48', longitude 65° 48', gives lowest barometer 28.06 inches and wind calm. It moved northwestward during the next two days, at a rate of about 600 miles per day (25 m. p. h.). On the morning of the 23d its center was at latitude 31½° N., longitude 73° W. During the preceding 12 hours it had begun to recurve to the northward. By the evening of the 23d it was central about 100 miles east of Cape Hatteras, being attended by winds of hurricane force near its center. It continued to move north-northeast, passing 100 miles or less to the east of Nantucket during the daylight hours of the 24th to the Straits of Belle Isle by the morning of the 25th, attended by gales over the Canadian Maritime Provinces approximating hurricane force near the center. It then moved rapidly northeast, being central over Iceland on the morning of the 27th with air pressure 28.44 inches and attended by gales. This hurricane moved at a rate considerably in excess of the normal and slowed up very little at the time of recurve, the trajectory being very smooth and not showing a sharp bend, as in the case of storms that are slow at the recurve.

Timely advices were issued twice daily or more to coast stations and to vessels by radio. The disturbance was of major intensity and hurricane winds were experienced near the center. Although advices were timely and accurate, considerable damage resulted to shipping off the New England coast and in the region of the Canadian Maritime Provinces.

On the morning of the 27th, storm warnings were ordered from Eastport to New York in connection with relatively low pressure south of Nantucket and high pressure over the Canadian Maritime Provinces, but winds did not reach dangerous proportions.

Small craft warnings were issued on the 9th, 15th, 18th, and 26th.

Frost warnings were not ordered or required.—*R. H. Weightman.*

## CHICAGO FORECAST DISTRICT

*Storm warnings.*—The month was marked by an unusual freedom from storms on the Great Lakes. Only two warnings of any character were issued, namely, small craft warnings on the 1st for the upper Lakes, except the Duluth section, and similar warnings on the 22d for all the upper Lakes.

*Frost warnings.*—These were issued as follows: On the 8th for low ground in northern Minnesota and extreme eastern North Dakota, also on the 22d for almost the same area; and on the 23d for most of Wisconsin and Michigan, northeastern Minnesota, and north-central Iowa. In addition, warnings were sent to the cranberry sections of Wisconsin on the 1st, 8th, 18th, 19th, 20th, 22d, 24th, and 25th. In most cases the frost occurred as forecast.—*C. A. Donnel.*

## NEW ORLEANS FORECAST DISTRICT

Moderate weather conditions prevailed over the district during the month of August. No storm warnings were ordered and no general storm winds occurred.—*I. M. Cline.*

## DENVER FORECAST DISTRICT

There was considerably more than normal activity, both in weather and temperature. There was not a single weather map, morning or evening, during the month that did not show precipitation somewhere in the district, and on 15 days of the month precipitation was recorded in every State in the district. At Denver the previous record of 16 days with 0.01 inch or more precipitation, in August, 1875, was exceeded by three days.

Generally speaking, barometric activity was sluggish and irregular. With the exception of one or two disturb-